Give me two dates and I'll predict your project

Daniel Ploeg @danploeg Agile Australia 2017





As an Agile Australia Attendee
I want to see some cool talks
So that I can learn new ways
of working

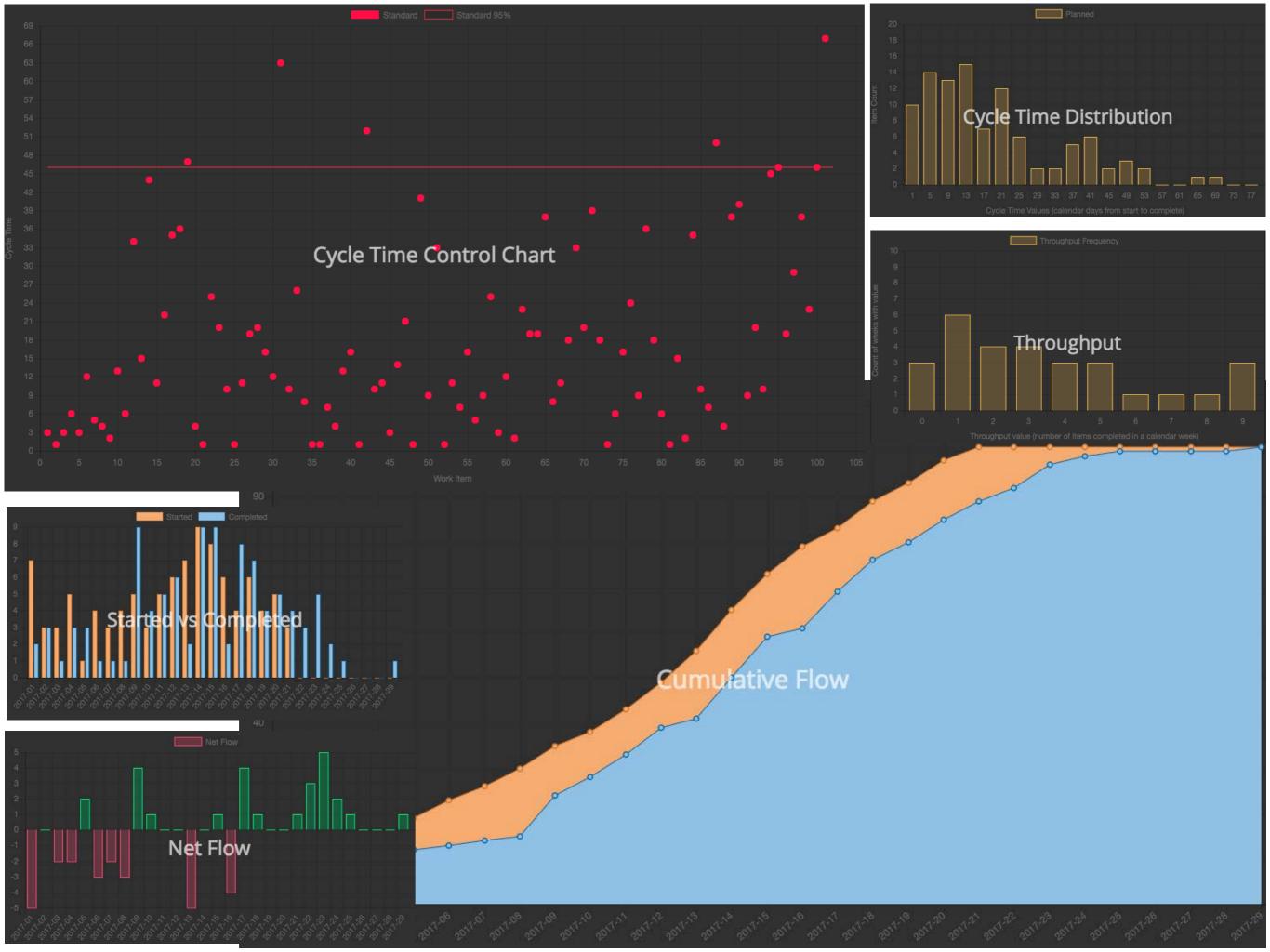
Capture your stories

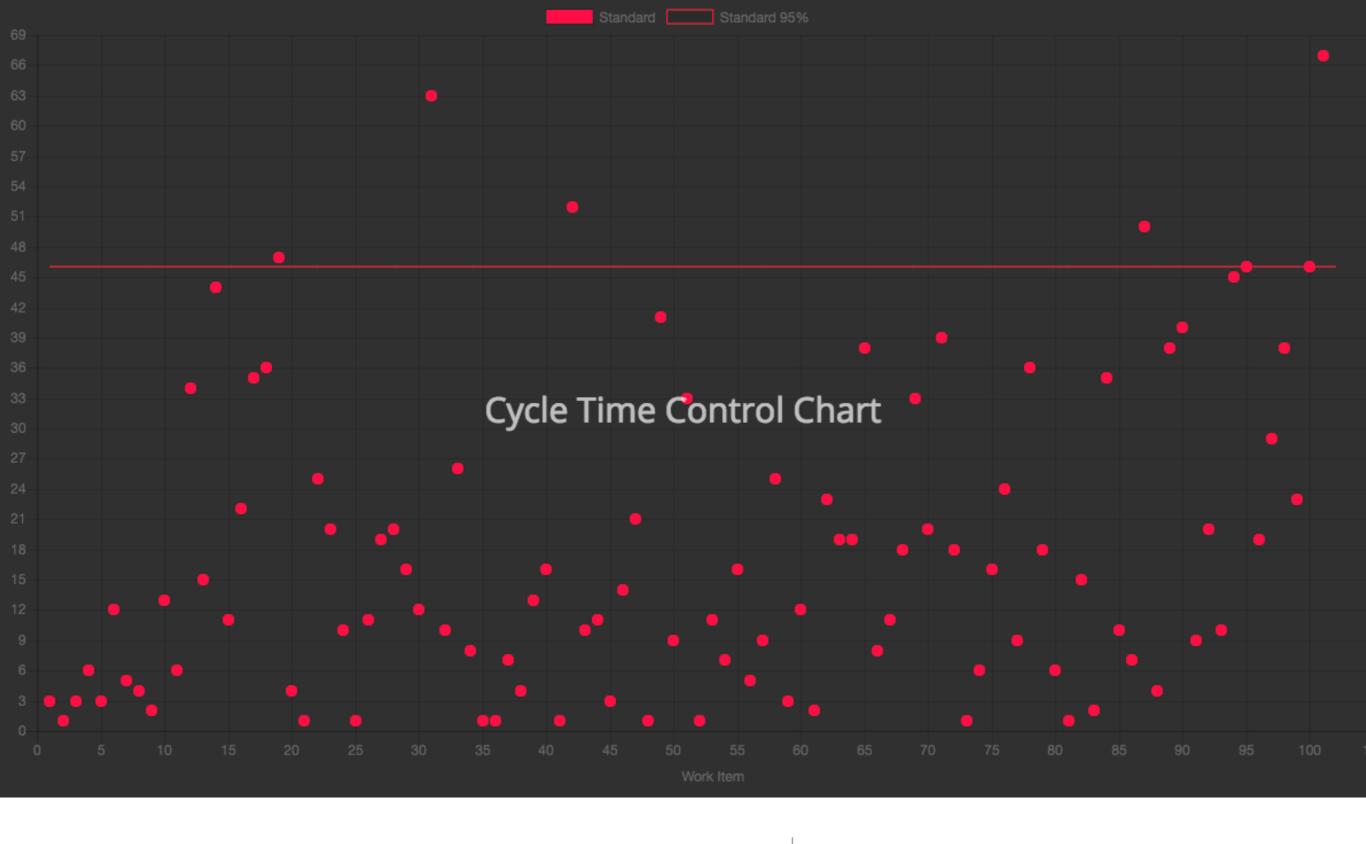
Existing Card

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Capture your stories

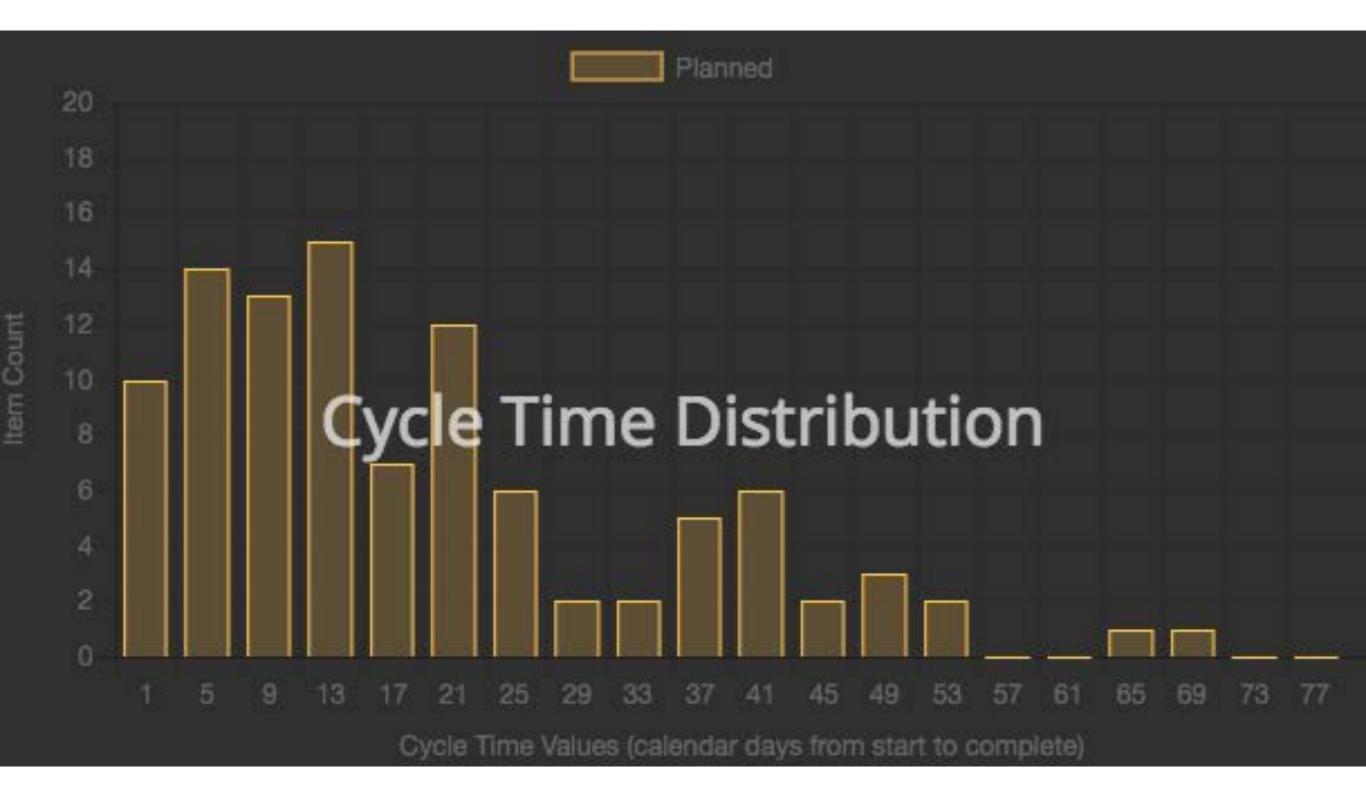
Add Start and Complete Date





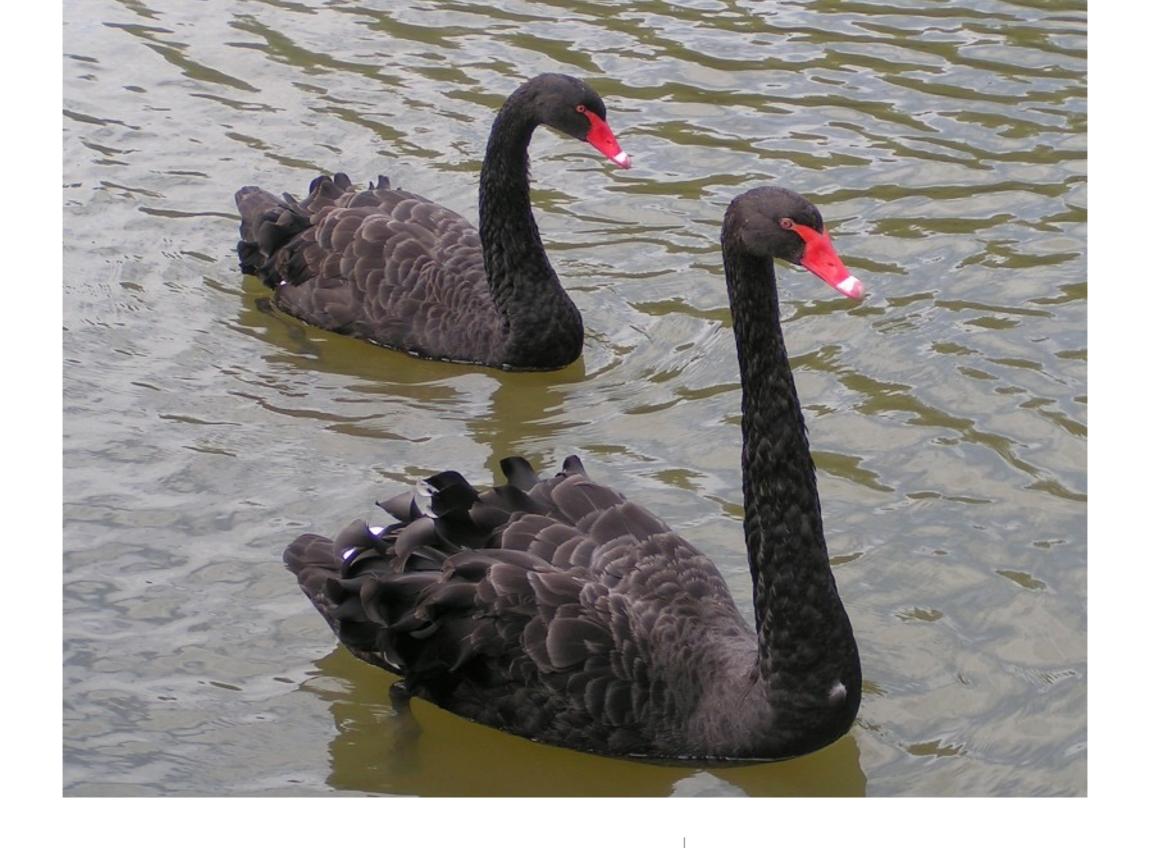
Cycle Time

Control chart with 95th Percentile



Cycle Time Distribution

Actual cycle time can have variation



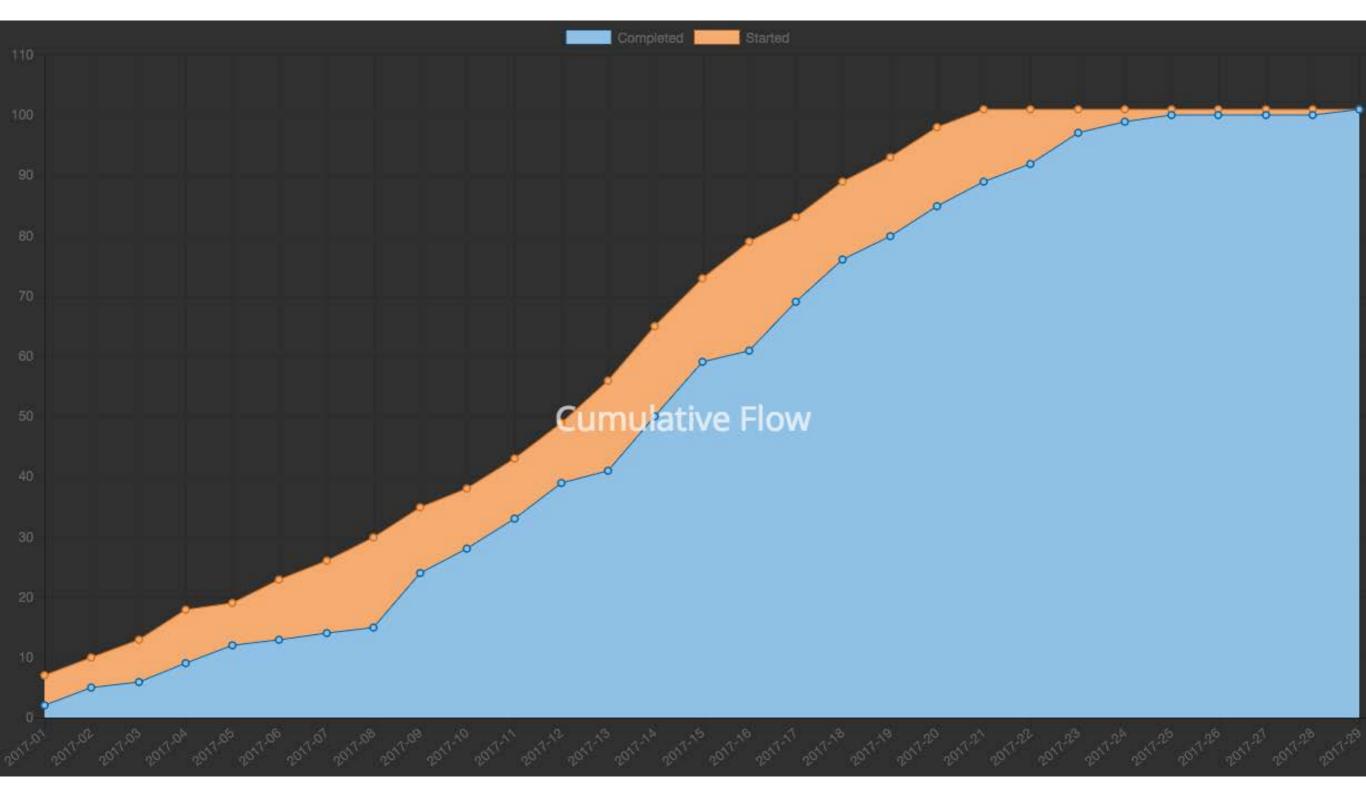
Watch out for these

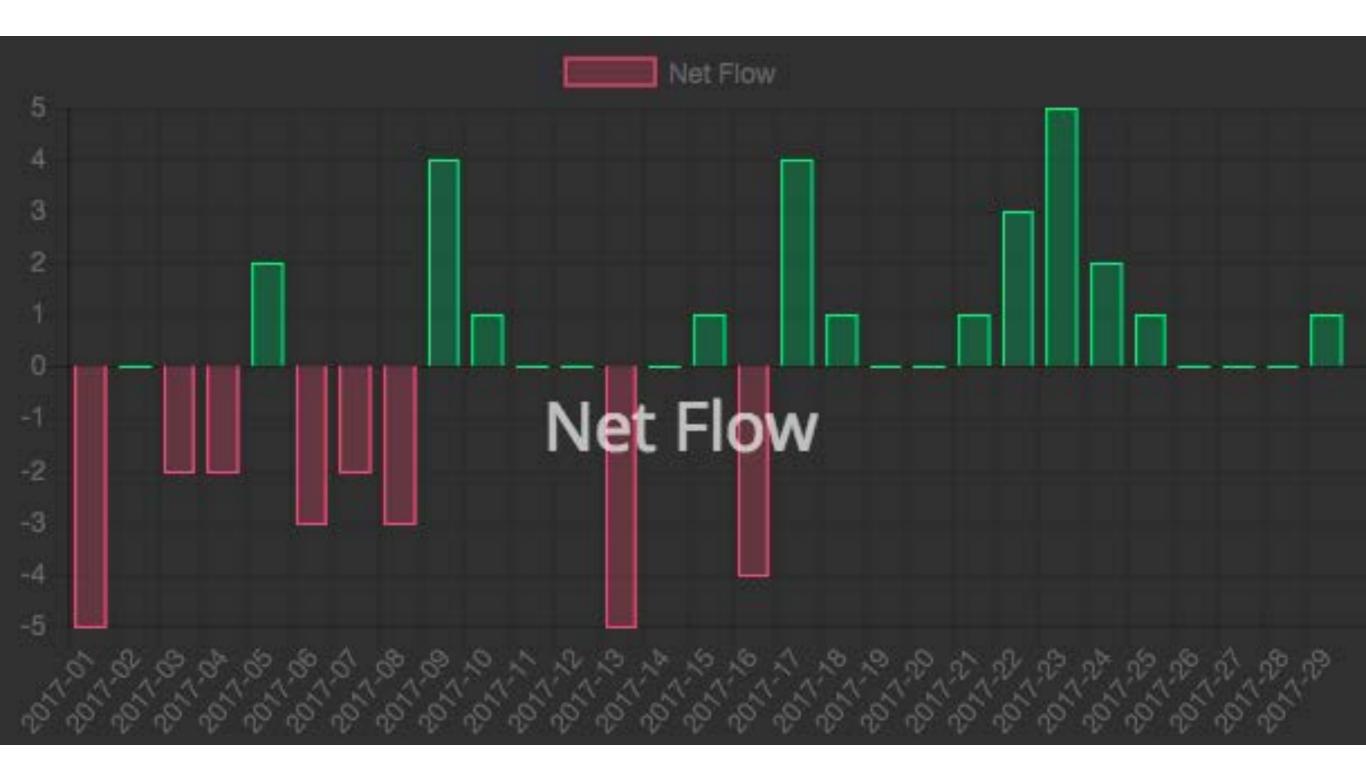
They often show up when you least expect it



We're working in two week sprints

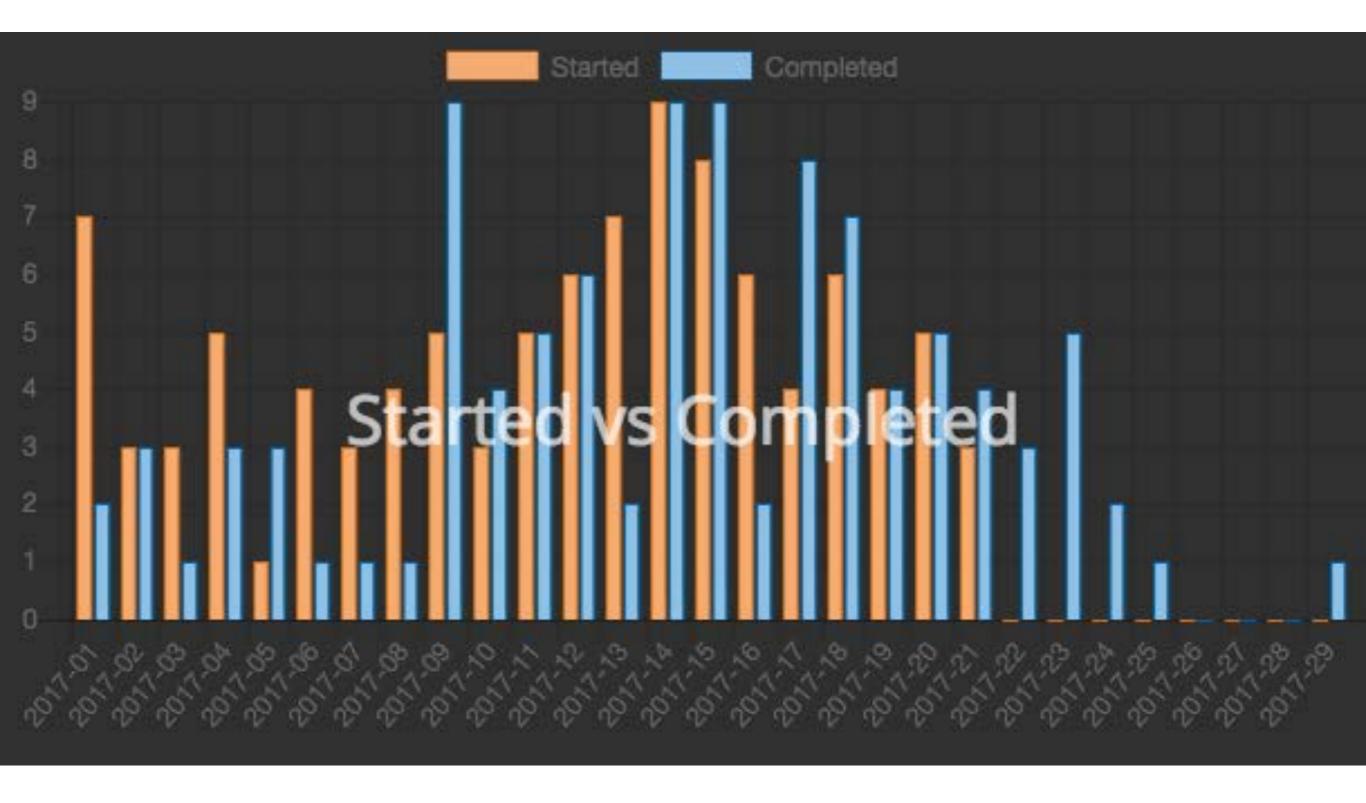
Not everything goes according to the Sprint Plan

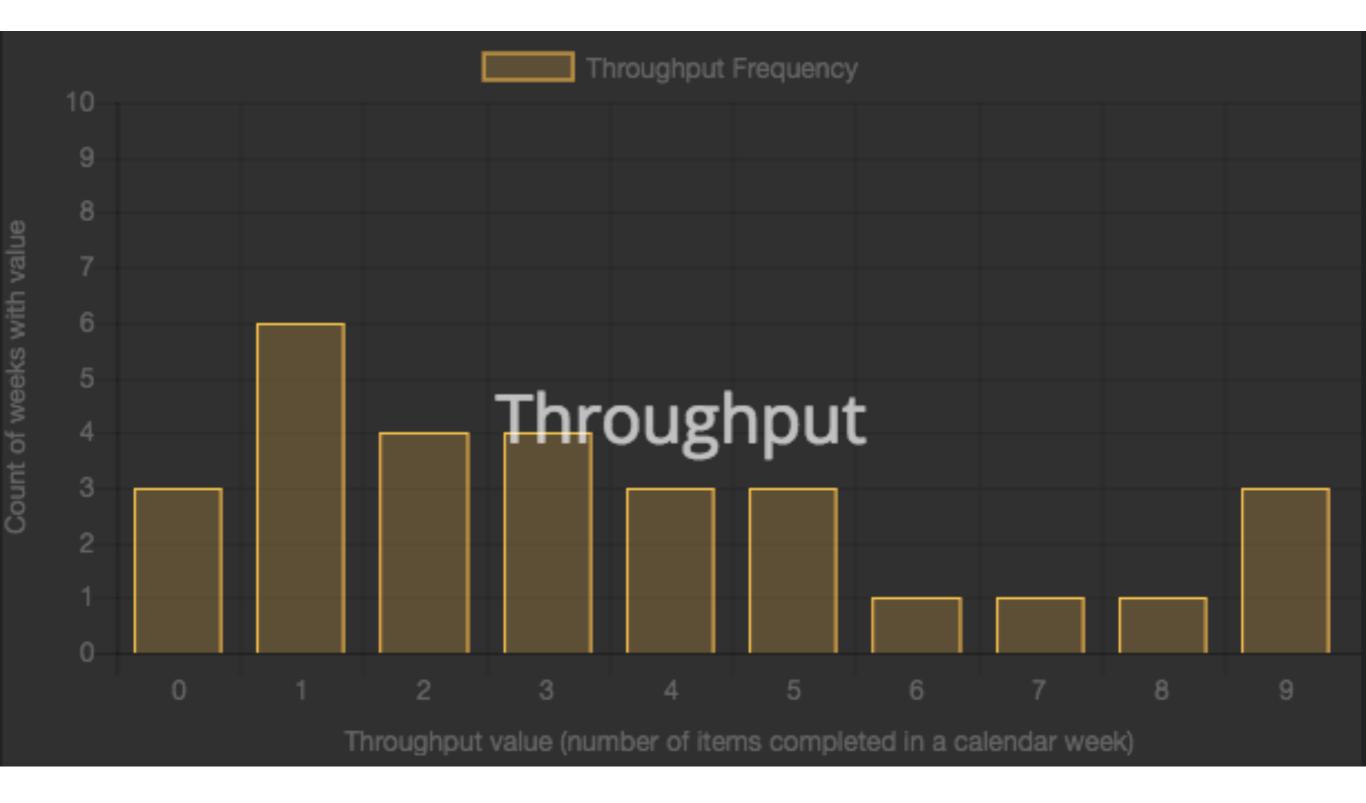




Flow Rates

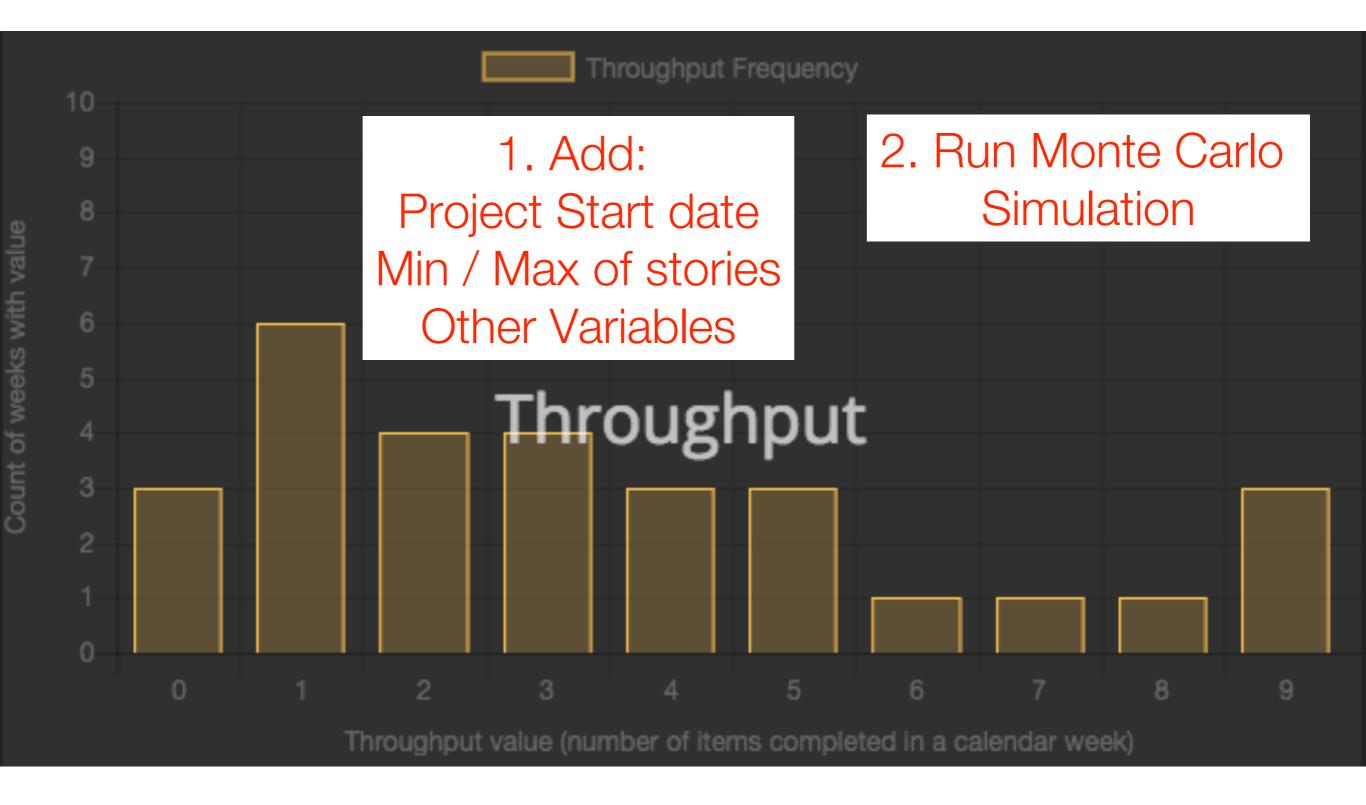
Is input and output even?





Throughput

Number of completed items for a given time period (weeks)



Throughput

Number of completed items for a given time period (weeks)

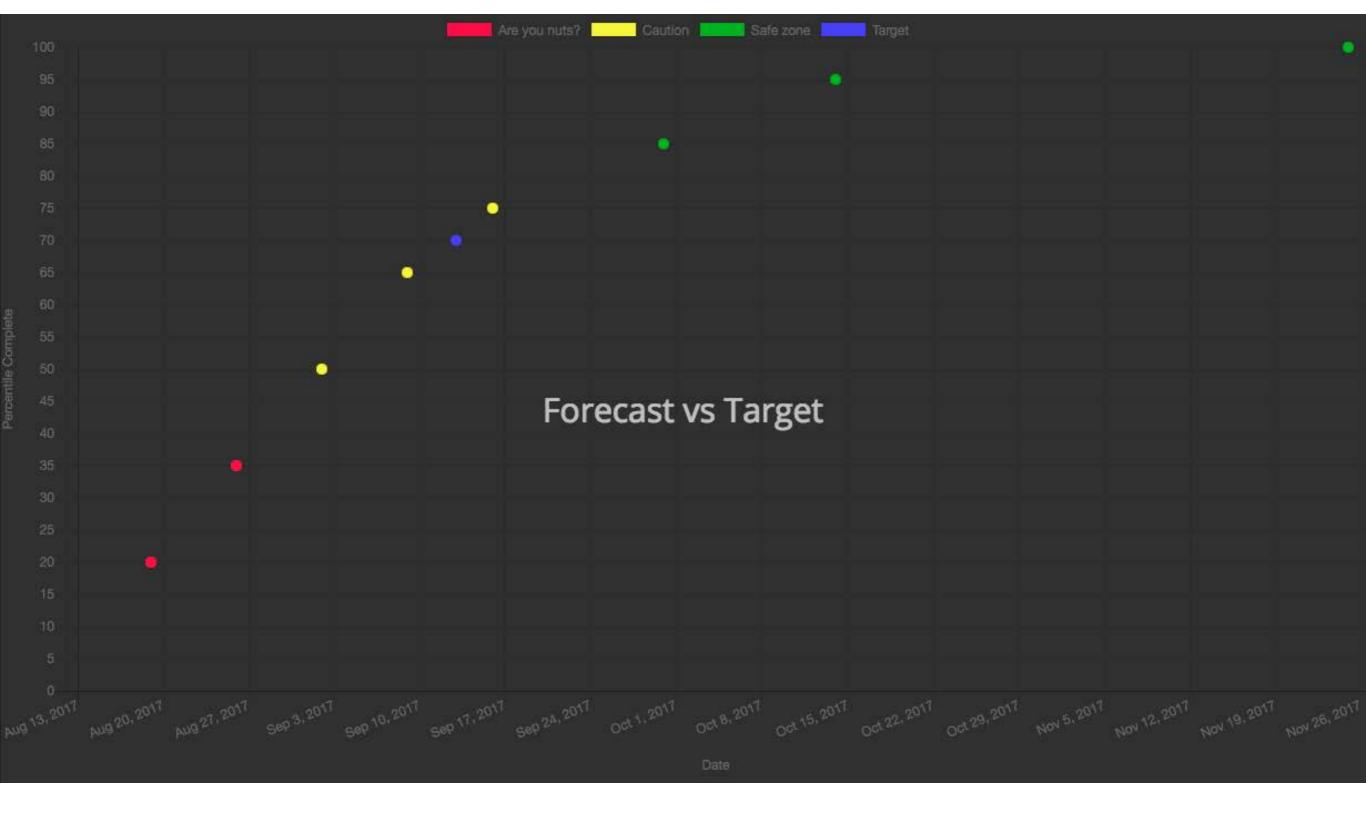
Forecasting

- Uses throughput data
- Run Monte Carlo (with 1000 simulations)
- Add start date for project
- Add number of stories left
 - Max / min
 - Split Rate

```
:forecast_config:
    :start_date: 10/6/17
    :min_number_of_stories: 30
    :max_number_of_stories: 50
    :story_split_rate_low: 1.0
    @story_split_rate_high: 1.0
    :target_complete_date: 13/9/17
```

Forecasts

Likelihood	Duration (weeks)	Completion Date
100%	24	25/11/17
95%	18	14/10/17
90%	17	07/10/17
85%	16	30/09/17
80%	15	23/09/17
75%	14	16/09/17
70%	14	16/09/17
65%	13	09/09/17
60%	Las 1 3 pdated at 16:50	09/09/17
55%	12	02/09/17
50%	12	02/09/17
45%	12	02/09/17
40%	11	26/08/17
35%	11	26/08/17
30%	11	26/08/17
25%	10	19/08/17
20%	10	19/08/17
15%	9	12/08/17
10%	8	05/08/17
5%	8	05/08/17
0%	4	08/07/17



Are we going to deliver on time?

Is target date in the safe zone?

Take aways

- Capture start and complete dates
- Continually sample and evaluate progress
- Make informed decisions

1/6/17	22/6/17	42
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So that I	can learn neu	ways
of working	3	
		(3)

Forecasts				
Likelihood	Duration (weeks)	Completion Date		
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95%	19	21/10/17		
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85%	16	30/09/17		
80%	15	23/09/17		
75%	15	23/09/17		
70%	14	16/09/17		
65%	14	16/09/17		
60%	Las 13 odated at 12:07	09/09/17		
55%	13	09/09/17		
50%	12	02/09/17		
45%	12	02/09/17		
40%	12	02/09/17		
35%	11	26/08/17		
30%	11	26/08/17		
25%	10	19/08/17		
20%	10	19/08/17		
15%	9	12/08/17		
10%	8	05/08/17		
5%	8	05/08/17		
0%	4	08/07/17		

References

- Dashboard -https://github.com/dploeg/kanban_dashboard
- Spreadsheets (Focused Objective) - <u>https://github.com/FocusedObjective/FocusedObjective.</u> <u>Resources</u>